WHAT IS CLAIMED IS:

1. A plastic object having a structurally modified part whose structure has been modified by irradiation with a laser light having a pulse duration of 10⁻¹² second or shorter.

- 2. The plastic object of claim 1, wherein the laser light having a pulse duration of 10⁻¹² second or shorter has an irradiation energy of 500 mW or lower.
- 3. The plastic object of claim 1, which has the structurally modified part in an inner portion thereof.
- 4. The plastic object of claim 1, wherein the structurally modified part extends in a direction parallel or perpendicular to the direction of the laser light irradiation.
- 5. The plastic object of claim 4, wherein the structurally modified part has a nearly circular or nearly rectangular section perpendicular to the longitudinal direction for the structurally modified part.
- 6. The plastic object of claim 1, wherein the structural modification in the structurally modified part is a structural modification caused by a crosslinking reaction, phase separation or a decomposition reaction.

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